

0900715-070601

SEQ. ID. NO.:1

GAGACTGCAGCAGAATATGTAAAATCTCGACTCCCAGAGGCTCTTAAGC
AGCACCTTCAGGATTATGAGAAGGACAAAGAAAACAGTGTCTGACCTA
CCAGACCATCCTCGAGCAGCAGATCTTGTCAATTGACCGGGAAATGCTG
GAAAAGTTGACAGTCTCCTATGATGAAGCAGGCACAACGTGTTTGATCS
CTCTACTCTCAGATAAAGACCTCACCGTGGCCAACGTTGGTGACTCTCG
GGGAGTCTTGTGTGACAAAGATGGCAATGCCATCCCCTTGTCTCACGAT
CACAAGCCTTACCAGCTGAAGGAAAGGAAGAGGATAAAGAGAGCTGGTG
GGTTCATCAGCTTTAATGGCTCCTGGAGGGTCCAGGGAATCCTAGCCAT
GTCTCGATCCCTGGGAGACTATCCACTGAAAAATCTCAACGTGGTCATC
CCAGACCCAGACATCTTGACCTTTGACCTGGACAAGCTGCAGCCGGAGT
TCATGATCTTGGCCTCAGATGGCCTGTGGGA : TGCTTTCAGCAATGAAG
AAGCGGTTTCGATTCATCAAGGAGCGCTTGGATGAGCCCCACTTTGGGGC
CAAAAGCATCGTCCTGCAGTCCTTTTACAGAGGCTGCCCTGACAACATC
ACTGTCATGGTGGTGAAGTTCAGGAATAGTAGCAAAACAGAAGAGCACT
GAACCCTGCCAGATCTCAGCTGCCCCAACTAGAGGACTCTCAACATAC
TGTTCTCTTCATGTAGTAAAAGGTGTGGGTATAATTAGGATCATGCGTC
CCAACACAGAACCCCCCTTCCCTGATGGCCTTGAATCCCTTTGGAGTACT
GAGCAGAGGGTTGGTTCCCTTGCTGACACCGCAGAGGCTGCTAAGTTTG
TGTCCCCCAGCCCTTCTATCAGTGTTTGAAACACATACGTAGGTAGCC
ACAGATCCCACATATGAGGCAAAGGAAAGGCAGGCCATATGTTTTCTT
CTTAATAATGTACTTTT

SEQ. ID. NO.:2

ETAAEYVKSRLPEALKQHLQDYEKDKENSVLTYQTILEQQILSIDREML
EKLTVSYDEAGTTCLIXLLSDKDLTVANVGDSRGVLCDDGNALPLSHD
HKPYQLKERKRIKRAGGFISFNQSWRVQGILAMSRSLGDYPLKNLNVVI
PDPDILTFDLQPEFMILASDGLWDAFSNEEAVRFIKERLDEPHFGA
KSIVLQSFYRGCPDNITVMVVKFRNSSKTEEH

FIGURE 1

Underlined = deleted in targeting construct

Bold = sequence flanking Neo insert in targeting construct

GAGACTGCAGCAGAATATGTAAAATCTCGACTCCCAGAGGCTCTTAAGCAGCACCTTCAG
GATTATGAGAAGGACAAAAGAAAACAGTGTTCTGACCTACCAGACCATCCTCGAGCAGCAG
ATCTTGTCAATTGACCGGGAATGCTGGAAAAGTTGACAGTCTCCTATGATGAAGCAGGC
ACAACGTGTTTGTATCCTCTACTCTCAGATAAAGACCTCACCGTGGCCAACGTTGGTGAC
TCTCGGGGAGTCTTGTGTGACAAAGATGGCAATGCCATCCCCTTGTCTCACGATCACAAG
CCTTACCAGCTGAAGGAAAGGAAGAGGATAAAGAGAGCTGGTGGGTTTCATCAGCTTTAAT
GGCTCCTGGAGGGTCCAGGGAATCCTAGCCATGTCTCGATCCCTGGGAGACTATCCACTG
AAAAATCTCAACGTGGTCATCCCAGACCCAGACATCTTGACCTTTGACCTGGACAAGCTG
CAGCCGGAGTTCATGATCTTGGCCTCAGATGGCCTGTGGGA : TGCTTTCAGCAATGAAGA
AGCGGTTTCGATTCATCAAGGAGCGCTTGGATGAGCCCCACTTTGGGGCCAAAAGCATCGT
CCTGCAGTCCTTTTACAGAGGCTGCCCTGACAACATCACTGTCATGGTGGTGAAGTTCAG
GAATAGTAGCAAAACAGAAGAGCACTGAACCCTGCCAGATCTCAGCTGCCCCAAACTAGA
GGACTCTCAACATACTGTTCTCTTCATGTAGTAAAAGGTGTGGGTATAATTAGGATCATG
CGTCCCAACACAGAACCCCTTCCCTGATGGCCTTGAATCCCTTTGGAGTACTGAGCAGA
GGGTTGGTTCCTTGCTGACACCGCAGAGGCTGCTAAGTTTGTGTCCCCCAGCCCTTCT
ATCAGTGTTTGAAACACATACGTAGGTAGCCACAGATCCACATATGAGGCAAAGGAAAG
GCAGGCCATATGTTTTCTTCTTAATAATGTACTTTT

FIGURE 2A

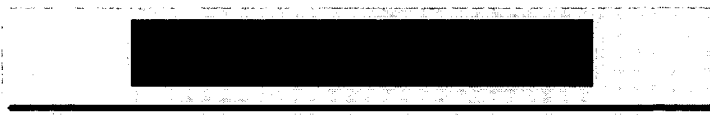
Gene Sequence
Structure *

414 bp

Sequence Deleted

596 bp

Size of EST
contig: 997 bp



Targeting Vector* (genomic sequence)

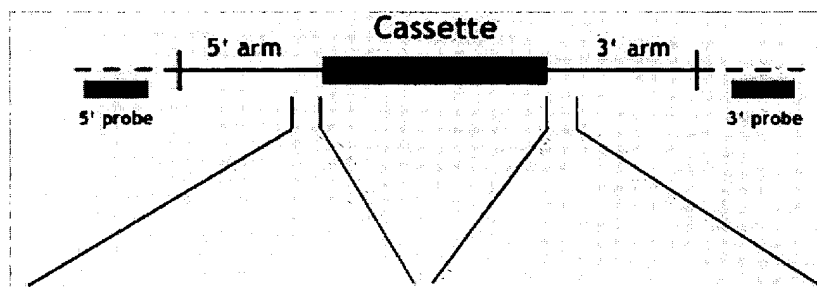
LacZ-Neo

Construct Number: 2867

Arm Length:

5': 3.9 kb

3': 2.9 kb



5' >GCTGGTGGCCTTGGCAGTGAC
GAAGGTGAAGGAGGGGTGCTTGTG
GCTCAGCTCTGTTGCAGCAGACCA
GCTTGTGGTACACTCAGCCAGACC
GGAACAAGCTAACAGGCTCCCTCT
GTCTTTCCAGGTGGGTTCATCAGC
TTTAATGGCTCCTGGAGGGTCCAG
GGAATCCTAGCCATGTCTCGATCC
CTGGGAGACTA<3'

(SEQ ID NO: 3)

5' >TCGTCCTGCAGTCCTTTTACA
GAGGCTGCCCTGACAACATCACTG
TCATGGTGGTGAAGTTCAGGAATA
GTAGCAAAACAGAAGGGCACTGAA
CCCTGCCAGATCTCAGCTGCCCCA
AACTAGAGGACTCTCAACATACTG
TTCTCTTCATGTAGTAAAAGGTGT
GGGTATAATTAGGATCATGCGTCC
CAACACAGAAC<3'

(SEQ ID NO: 4)

———— Targeting Vector
- - - - Endogenous Locus

* Not drawn to scale

FIGURE 2B